

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Toyonori SASAKI

Rule 53(b) Continuation of U.S. Application No.  
09/280,056

Filed: May 24, 2001

Docket No.: 103007.01

For: INK CARTRIDGE AND REMAINING INK VOLUME DETECTION METHOD

PRELIMINARY AMENDMENT

Director of the U.S. Patent and Trademark Office  
Washington, D. C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Page 6, line 17 - page 7, line 16, delete current paragraph and insert therefor:

When the remaining ink quantity inside the ink cartridge is being detected with a sensor, particularly one that is of the reflected light type, in order to accurately eject light onto a detection site from a light emitting element, and have the light reflected at the inner surface of the outer wall of the ink cartridge, that is the detection site received without failure by a light receiving element, the positions of the light emitting element and light receiving element relative to the detection site must be accurately established. However, the ink cartridge is made so that it can be freely attached to and detached from the recording head so that the user can replace it. The condition in which the ink cartridge is mounted will be slightly different, therefore, every time the user replaces it. In some cases, moreover, variation in the positions

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